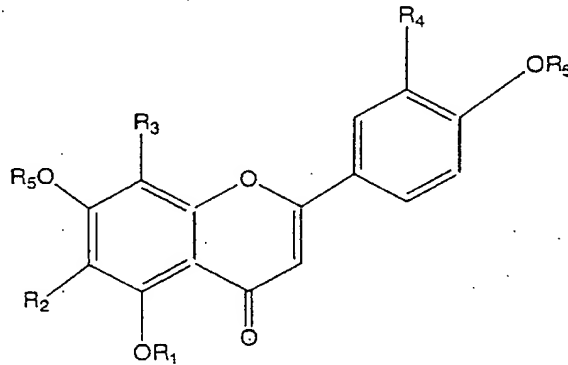


What is claimed is:

1. A method for extending neurites comprising administering a composition to a subject, the composition comprising a polyalkoxyflavonoid represented by Formula 1, and a pharmaceutically acceptable carrier or a food material:



(1)

wherein R_1 is H or a lower alkyl group of C_1 to C_6 ; R_2 , R_3 and R_4 are each independently H or an alkoxy group of C_1 to C_6 ; and R_5 is a lower alkyl group of C_1 to C_6 .

2. The method of claim 1, wherein the polyalkoxyflavonoid is nobiletin or tangeretin.

3. A method for extending neurites comprising administering a composition to a subject, the composition comprising an extract from a plant belonging to the citrus family, and a pharmaceutically acceptable carrier or a food material.

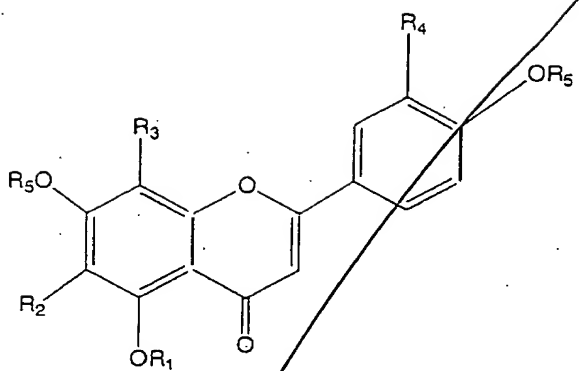
4. The method of claim 3, wherein the extract from a plant belonging to the citrus family comprises a polyalkoxyflavonoid represented by Formula 1:

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A2
cont

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Sub
A2



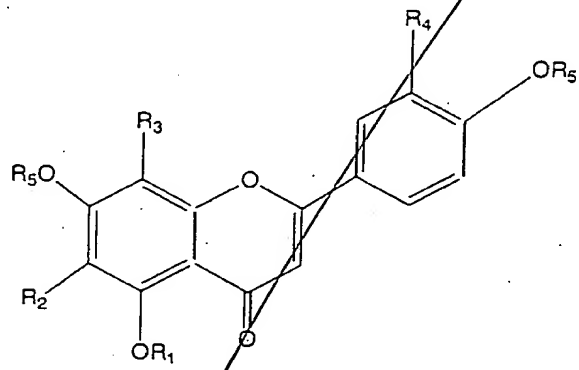
(1)

wherein R_1 is H or a lower alkyl group of C_1 to C_6 ; R_2 , R_3 and R_4 are each independently H or an alkoxy group of C_1 to C_6 ; and R_5 is a lower alkyl group of C_1 to C_6 .

5. The method of claim 4, wherein the polyalkoxyflavonoid is nobiletin or tangeretin.

obv

6. A method for preventing and/or treating neurodegeneration diseases comprising administering a composition to a subject, the composition comprising a polyalkoxyflavonoid represented by Formula 1, and a pharmaceutically acceptable carrier or a food material:



(1)

Sub A2

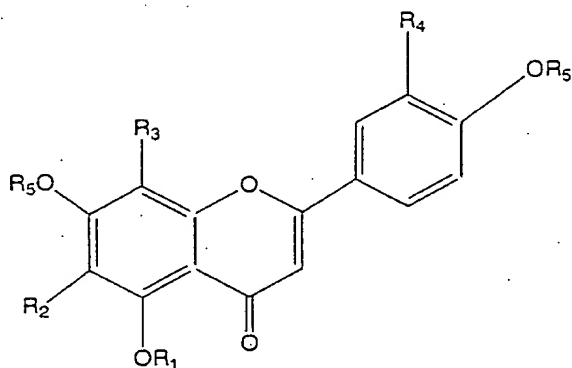
wherein R_1 is H or a lower alkyl group of C_1 to C_6 ; R_2 , R_3 and R_4 are each independently H or an alkoxy group of C_1 to C_6 ; and R_5 is a lower alkyl group of C_1 to C_6 .

7. The method of claim 6, wherein the polyalkoxyflavonoid is nobiletin or tangeretin.

Sub A3

8. A method for preventing and/or treating neurodegeneration diseases comprising administering a composition to a subject, the composition comprising an extract from a plant belonging to the citrus family, and a pharmaceutically acceptable carrier or a food material.

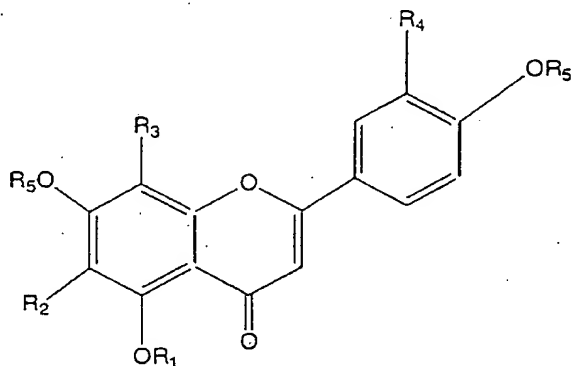
9. The method of claim 8, wherein the extract from a plant belonging to the citrus family comprises a polyalkoxyflavonoid represented by Formula 1:



wherein R_1 is H or a lower alkyl group of C_1 to C_6 ; R_2 , R_3 and R_4 are each independently H or an alkoxy group of C_1 to C_6 ; and R_5 is a lower alkyl group of C_1 to C_6 .

10. The method of claim 9, wherein the polyalkoxyflavonoid is nobiletin or tangeretin.

11. A method for extending neurites comprising bringing a composition in contact with neurocytes, the composition comprising a polyalkoxyflavonoid represented by Formula 1, and a physiologically acceptable carrier:



(1)

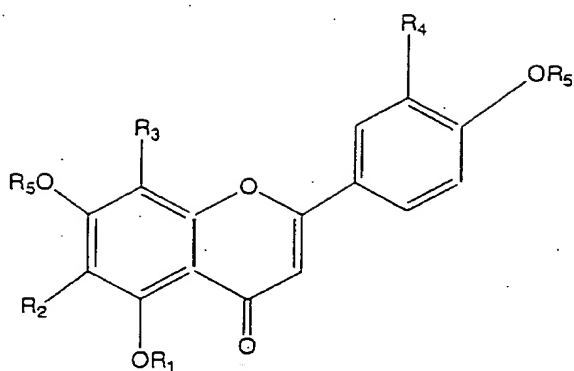
wherein R₁ is H or a lower alkyl group of C₁ to C₆; R₂, R₃ and R₄ are each independently H or an alkoxy group of C₁ to C₆; and R₅ is a lower alkyl group of C₁ to C₆.

12. The method of claim 11, wherein the polyalkoxyflavonoid is nobiletin or tangeretin.

13. A method for extending neurites comprising bringing a composition in contact with neurocytes, the composition comprising an extract from a plant belonging to the citrus family, and a physiologically acceptable carrier.

14. The method of claim 13, wherein the extract from a plant belonging to the citrus family comprises polyalkoxyflavonoid represented by Formula 1:

okj.



(1)

wherein R_1 is H or a lower alkyl group of C_1 to C_6 ; R_2 , R_3 and R_4 are each independently H or an alkoxy group of C_1 to C_6 ; and R_5 is a lower alkyl group of C_1 to C_6 .

15. The method of claim 14, wherein the polyalkoxyflavonoid is nobiletin or tangeretin. *obj*